><MW: 120922
MVFPMWTLKRQILILFNIILISKLLGARWFPKTLPCDVTLDVPKNHVIVDCTDKHLTEIP
GGIPTNTTNLTLTINHIPDISPASFHRLDHLVEIDFRCNCVPIPLGSKNNMCIKRLQIKP
RSFSGLTYLKSLYLDGNQLLEIPQGLPPSLQLLSLEANNIFSIRKENLTELANIEILYLG
QNCYYRNPCYVSYSIEKDAFLNLTKLKVLSLKDNNVTAVPTVLPSTLTELYLYNNMIAKI
QEDDFNNLNQLQILDLSGNCPRCYNAPFPCAPCKNNSPLQIPVNAFDALTELKVLRLHSN
SLQHVPPRWFKNINKLQELDLSQNFLAKEIGDAKFLHFLPSLIQLDLSFNFELQVYRASM
NLSQAFSSLKSLKILRIRGYVFKELKSFNLSPLHNLQNLEVLDLGTNFIKIANLSMFKQF
KRLKVIDLSVNKISPSGDSSEVGFCSNARTSVESYEPQVLEQLHYFRYDKYARSCRFKNK
EASFMSVNESCYKYGQTLDLSKNSIFFVKSSDFQHLSFLKCLNLSGNLISQTLNGSEFQP
LAELRYLDFSNNRLDLLHSTAFEELHKLEVLDISSNSHYFQSEGITHMLNFTKNLKVLQK
LMMNDNDISSSTSRTMESESLRTLEFRGNHLDVLWREGDNRYLQLFKNLLKLEELDISKN
SLSFLPSGVFDGMPPNLKNLSLAKNGLKSFSWKKLQCLKNLETLDLSHNQLTTVPERLSN
CSRSLKNLILKNNQIRSLTKYFLQDAFQLRYLDLSSNKIQMIQKTSFPENVLNNLKMLLL
HHNRFLCTCDAVWFVWWVNHTEVTIPYLATDVTCVGPGAHKGQSVISLDLYTCELDLTNL
ILFSLSISVSLFLMVMMTASHLYFWDVWYIYHFCKAKIKGYQRLISPDCCYDAFIVYDTK
DPAVTEWVLAELVAKLEDPREKHFNLCLEERDWLPGQPVLENLSQSIQLSKKTVFVMTDK
YAKTENFKIAFYLSHQRLMDEKVDVIILIFLEKPFQKSKFLQLRKRLCGSSVLEWPTNPQ
AHPYFWQCLKNALATDNHVAYSQVFKETV

FIG. 1

MENMFLQSSMLTCIFLLISGSCELCAEENFSRSYPCDEKKQNDSVIAECSNRRLQEVPQT
VGKYVTELDLSDNFITHITNESFQGLQNLTKINLNHNPNVQHQNGNPGIQSNGLNITDGA
FLNLKNLRELLLEDNQLPQIPSGLPESLTELSLIQNNIYNITKEGISRLINLKNLYLAWN
CYFNKVCEKTNIEDGVFETLTNLELLSLSFNSLSHVPPKLPSSLRKLFLSNTQIKYISEE
DFKGLINLTLLDLSGNCPRCFNAPFPCVPCDGGASINIDRFAFQNLTQLRYLNLSSTSLR
KINAAWFKNMPHLKVLDLEFNYLVGEIVSGAFLTMLPRLEILDLSFNYIKGSYPQHINIS
RNFSKLLSLRALHLRGYVFQELREDDFQPLMQLPNLSTINLGINFIKQIDFKLFQNFSNL
EIIYLSENRISPLVKDTRQSYANSSSFQRHIRKRRSTDFEFDPHSNFYHFTRPLIKPQCA
AYGKALDLSLNSIFFIGPNQFENLPDIACLNLSANSNAQVLSGTEFSAIPHVKYLDLTNN
RLDFDNASALTELSDLEVLDLSYNSHYFRIAGVTHHLEFIQNFTNLKVLNLSHNNIYTLT
DKYNLESKSLVELVFSGNRLDILWNDDDNRYISIFKGLKNLTRLDLSLNRLKHIPNEAFL
NLPASLTELHINDNMLKFFNWTLLQQFPRLELLDLRGNKLLFLTDSLSDFTSSLRTLLLS
HNRISHLPSGFLSEVSSLKHLDLSSNLLKTINKSALETKTTTKLSMLELHGNPFECTCDI
GDFRRWMDEHLNVKIPRLVDVICASPGDQRGKSIVSLELTTCVSDVTAVILFFFTFFITT
MVMLAALAHHLFYWDVWFIYNVCLAKVKGYRSLSTSQTFYDAYISYDTKDASVTDWVINE
LRYHLEESRDKNVLLCLEERDWDPGLAIIDNLMQSINQSKKTVFVLTKKYAKSWNFKTAF
YLALQRLMDENMDVIIFILLEPVLQHSQYLRLRQRICKSSILQWPDNPKAEGLFWQTLRN
VVLTENDSRYNNMYVDSIKQY

<1041 residues, 0 stop; molecular weight: 119856.26

FIG. 3

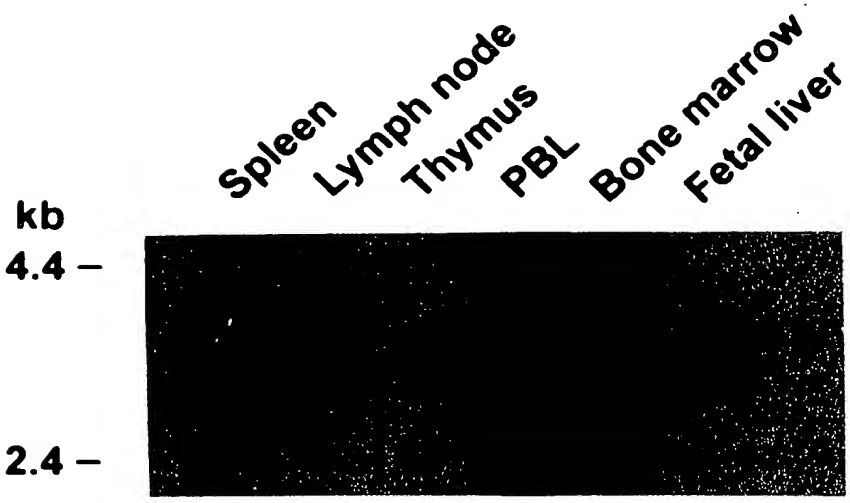

FIG. 5A

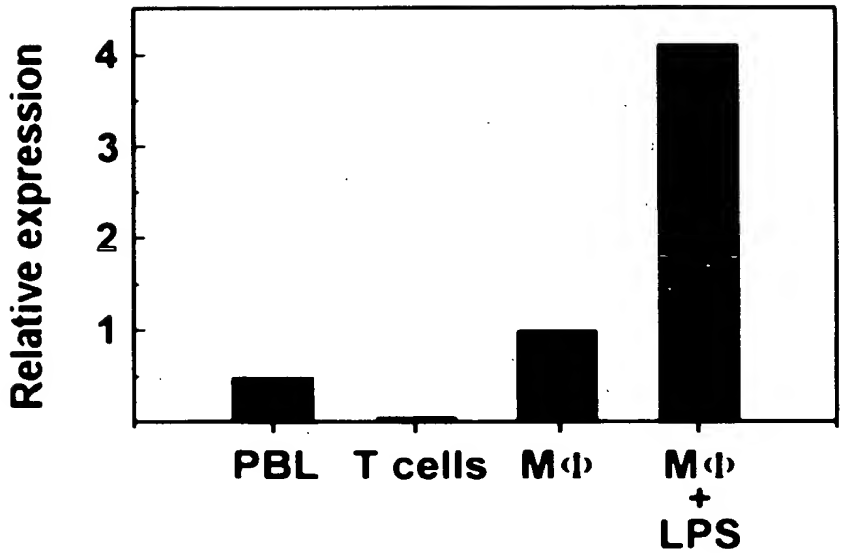

FIG. 5B

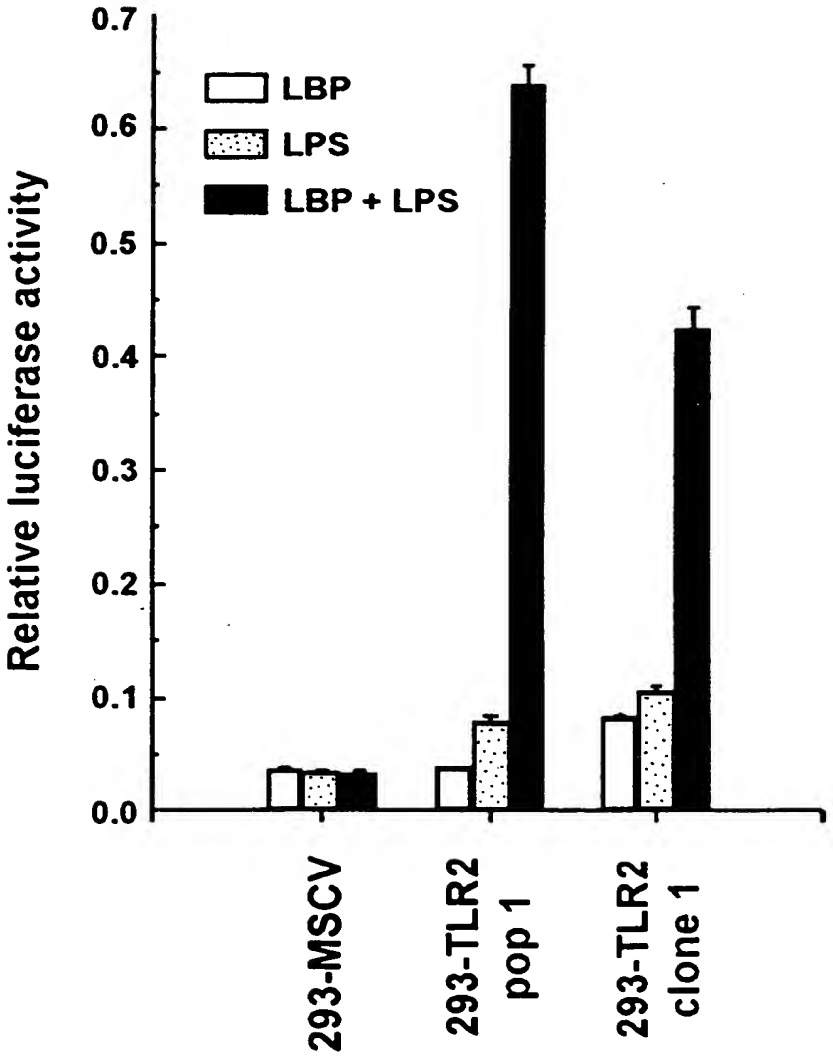
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Relative luciferase activity
LBP
LPS
LBP + LPS
293-MSCV
293-TLR2 pop 1
293-TLR2 clone 1

FIG. 6A

FIG. 6B

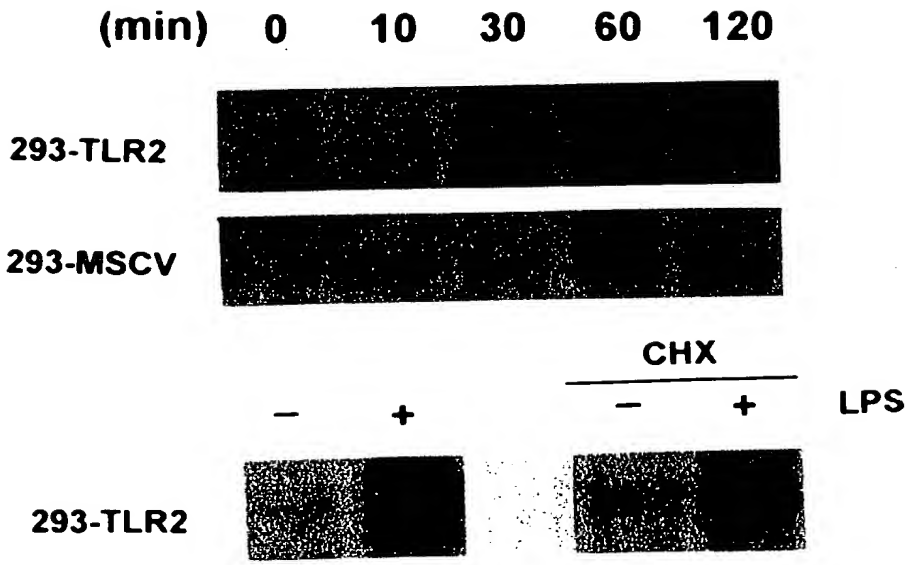

FIG. 6C

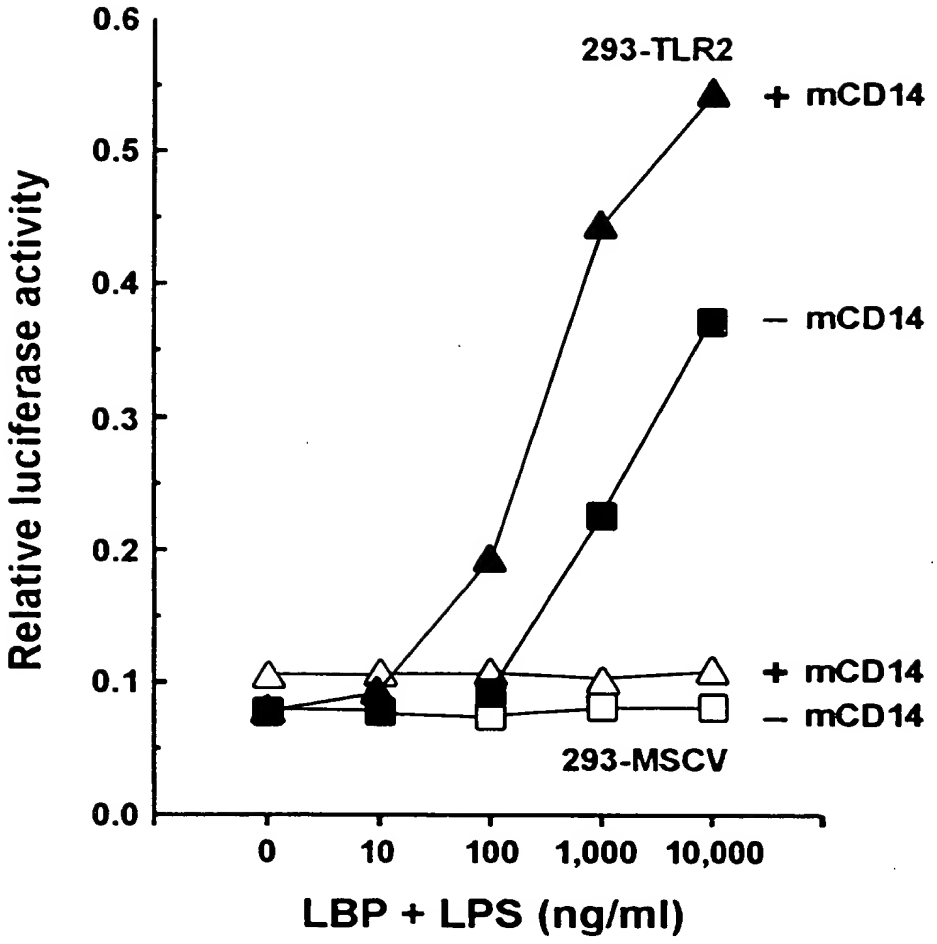
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Relative luciferase activity
293-TLR2
+ mCD14
– mCD14
+ mCD14
– mCD14
293-MSCV
0
10
100
1,000
10,000
LBP + LPS (ng/ml)

FIG. 6D

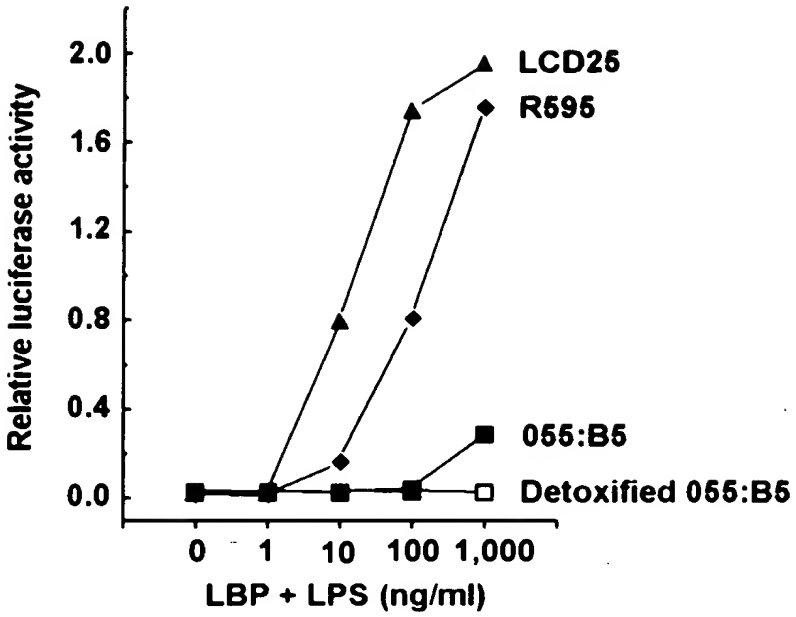
Relative luciferase activity
2.0
1.6
1.2
0.8
0.4
0.0
LCD25
R595
055:B5
Detoxified 055:B5
0
1
10
100
1,000
LBP + LPS (ng/ml)

FIG. 8A

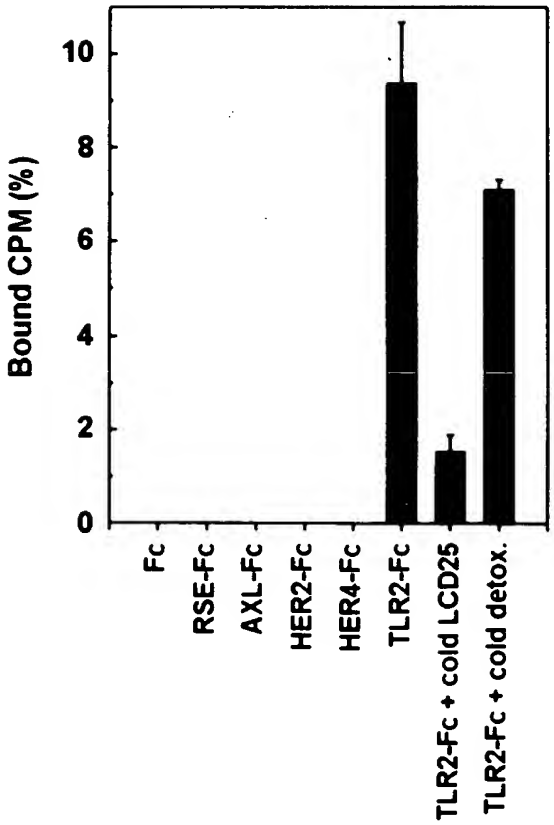
Bound CPM (%)
10
8
6
4
2
0
Fc
RSE-Fc
AXL-Fc
HER2-Fc
HER4-Fc
TLR2-Fc
TLR2-Fc + cold LCD25
TLR2-Fc + cold detox.

FIG. 8B

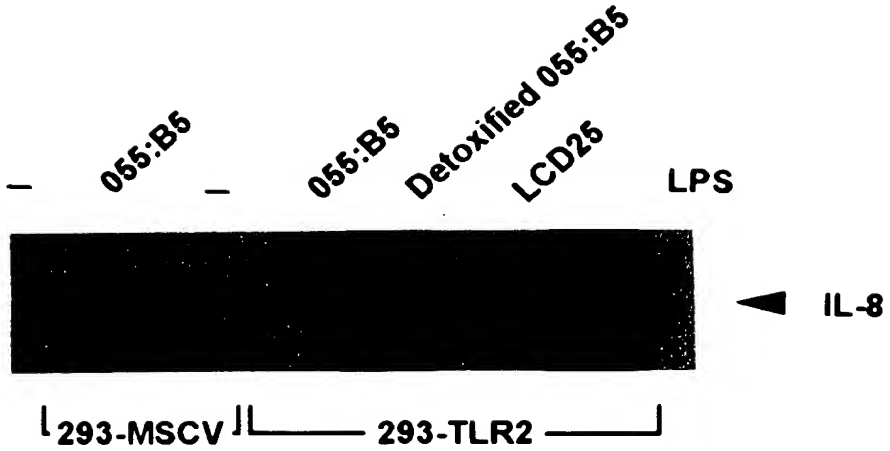
–
055:B5
–
055:B5
Detoxified 055:B5
LCD25
LPS
IL-8
293-MSCV
293-TLR2

FIG. 9

GTTATGCCTAGAAAACATTTCTCAAGAATTAGAATTACGATATGCTGTCAAACACAATGA
CTTATTTGAACCTCTTTTATTTGTAGGTTGAAGCACTGGACAATGCCACATACTTTGTGG
ATGGTGTGGGTCTTGGGGGTCATCATCAGCCTCTCCAAGGAAGAATCCTCCAATCAGGCT
TCTCTGTCTTGTGACCGCAATGGTATCTGCAAGGGCAGCTCAGGATCTTTAAACTCCATT
CCCTCAGGGCTCACAGAAGCTGTAAAAAGCCTTGACCTGTCCAACAACAGGATCACCTAC
ATTAGCAACAGTGACCTACAGAGGTGTGTGAACCTCCAGGCTCTGGTGCTGACATCCAAT
GGAATTAACACAATAGAGGAAGATTCTTTTTCTTCCCTGGGCAGTCTTGAACATTTAGAC
TTATCCTATAATTACTTATCTAATTTATCGTCTTCCTGGTTCAAGCCCCTTTCTTCTTTA
ACATTCTTAAACTTACTGGGAAATCCTTACAAAACCCTAGGGGAAACATCTCTTTTTTCT
CATCTCACAAAATTGCAAATCCTGAGAGTGGGAAATATGGACACCTTCACTAAGATTCAA
AGAAAAGATTTTGCTGGACTTACCTTCCTTGAGGAACTTGAGATTGATGCTTCAGATCTA
CAGAGCTATGAGCCAAAAAGTTTGAAGTCAATTCAGAATGTAAGTCATCTGATCCTTCAT
ATGAAGCAGCATATTTTACTGCTGGAGATTTTTGTAGATGTTACAAGTTCCGTGGAATGT
TTGGAACTGCGAGATACTGATTTGGACACTTTCCATTTTTCAGAACTATCCACTGGTGAA
ACAAATTCATTGATTAAAAAGTTTACATTTAGAAATGTGAAAATCACCGATGAAAGTTTG
TTTCAGGTTATGAAACTTTTGAATCAGATTTCTGGATTGTTAGAATTAGAGTTTGATGAC
TGTACCCTTAATGGAGTTGGTAATTTTAGAGCATCTGATAATGACAGAGTTATAGATCCA
GGTAAAGTGGAAACGTTAACAATCCGGAGGCTGCATATTCCAAGGTTTTACTTATTTTAT
GATCTGAGCACTTTATATTCACTTACAGAAAGAGTTAAAAGAATCACAGTAGAAAACAGT
AAAGTTTTTCTGGTTCCTTGTTTACTTTCACAACATTTAAAATCATTAGAATACTTGGAT
CTCAGTGAAAATTTGATGGTTGAAGAATACTTGAAAAATTCAGCCTGTGAGGATGCCTGG
CCCTCTCTACAAACTTTAATTTTAAGGCAAAATCATTTGGCATCATTGGAAAAAACCGGA
GAGACTTTGCTCACTCTGAAAAACTTGACTAACATTGATATCAGTAAGAATAGTTTTCAT
TCTATGCCTGAAACTTGTCAGTGGCCAGAAAAGATGAAATATTTGAACTTATCCAGCACA
CGAATACACAGTGTAACAGGCTGCATTCCCAAGACACTGGAAATTTTAGATGTTAGCAAC
AACAATCTCAATTTATTTTCTTTGAATTTGCCGCAACTCAAAGAACTTTATATTTCCAGA
AATAAGTTGATGACTCTACCAGATGCCTCCCTCTTACCCATGTTACTAGTATTGAAAATC
AGTAGGAATGCAATAACTACGTTTTCTAAGGAGCAACTTGACTCATTTCACACACTGAAG
ACTTTGGAAGCTGGTGGCAATAACTTCATTTGCTCCTGTGAATTCCTCTCCTTCACTCAG
GAGCAGCAAGCACTGGCCAAAGTCTTGATTGATTGGCCAGCAAATTACCTGTGTGACTCT
CCATCCCATGTGCGTGGCCAGCAGGTTCAGGATGTCCGCCTCTCGGTGTCGGAATGTCAC
AGGACAGCACTGGTGTCTGGCATGTGCTGTGCTCTGTTCCTGCTGATCCTGCTCACGGGG
GTCCTGTGCCACCGTTTCCATGGCCTGTGGTATATGAAAATGATGTGGGCCTGGCTCCAG
GCCAAAAGGAAGCCCAGGAAAGCTCCCAGCAGGAACATCTGCTATGATGCATTTGTTTCT
TACAGTGAGCGGGATGCCTACTGGGTGGAGAACCTTATGGTCCAGGAGCTGGAGAACTTC
AATCCCCCCTTCAAGTTGTGTCTTCATAAGCGGGACTTCATTCCTGGCAAGTGGATCATT
GACAATATCATTGACTCCATTGAAAAGAGCCACAAAACTGTCTTTGTGCTTTCTGAAAAC
TTTGTGAAGAGTGAGTGGTGCAAGTATGAACTGGACTTCTCCCATTTCCGTCTTTTTGAT
GAGAACAATGATGCTGCCATTCTCATTCTTCTGGAGCCCATTGAGAAAAAAGCCATTCCC
CAGCGCTTCTGCAAGCTGCGGAAGATAATGAACACCAAGACCTACCTGGAGTGGCCCATG
GACGAGGCTCAGCGGGAAGGATTTTGGGTAAATCTGAGAGCTGCGATAAAGTCCTAGGTT
CCCATATTTAAGACCAGTCTTTGTCTAGTTGGGATCTTTATGTCACTAGTTATAGTTAAG
TTCATTCAGACATAATTATATAAAAACTACGTGGATGTACCGTCATTTGAGGACTTGCTT
ACTAAAACTACAAAACTTCAAA

FIG. 10

MPHTLWMVWVLGVIISLSKEESSNQASLSCDRNGICKGSSGSLNSIPSGLTEAVKSLDL
SNNRITYISNSDLQRCVNLQALVLTSNGINTIEEDSFSSLGSLEHLDLSYNYLSNLSSS
WFKPLSSLTFLNLLGNPYKTLGETSLFSHLTKLQILRVGNMDTFTKIQRKDFAGLTFLE
ELEIDASDLQSYEPKSLKSIQNVSHLILHMKQHILLLEIFVDVTSSVECLELRDTDLDT
FHFSELSTGETNSLIKKFTFRNVKITDESLFQVMKLLNQISGLLELEFDDCTLNGVGNF
RASDNDRVIDPGKVETLTIRRLHIPRFYLFYDLSTLYSLTERVKRITVENSKVFLVPCL
LSQHLKSLEYLDLSENLMVEEYLKNSACEDAWPSLQTLILRQNHLASLEKTGETLLTLK
NLTNIDISKNSFHSMPETCQWPEKMKYLNLSSTRIHSVTGCIPKTLEILDVSNNNLNLF
SLNLPQLKELYISRNKLMTLPDASLLPMLLVLKISRNAITTFSKEQLDSFHTLKTLEAG
GNNFICSCEFLSFTQEQQALAKVLIDWPANYLCDSPSHVRGQQVQDVRLSVSECHRTAL
VSGMCCALFLLILLTGVLCHRFHGLWYMKMMWAWLQAKRKPRKAPSRNICYDAFVSYSE
RDAYWVENLMVQELENFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSHKTVFVLSENFV
KSEWCKYELDFSHFRLFDENNDAAILILLEPIEKKAIPQRFCKLRKIMNTKTYLEWPMD
EAQREGFWVNLRAAIKS

FIG. 11

(SEQ ID NO: 2)

```
GAATCATCCA CGCACCTGCA GCTCTGCTGA GAGAGTGCAA GCCGTGGGGG TTTTGAGCTC ATCTTCATCA TTCATATGAG GAAATAAGTG GTAAAATCCT  100

          <MET (trans=1-s, dir=f, res+1)>
TGGAAATACA ATGAGACTCA TCAGAAACAT TTACATATTT TGTAGTATTG TTATGACAGC AGAGGGTGAT GCTCCAGAGC TGCCAGAAGA AAGGGAACTG  200

ATGACCAACT GCTCCAACAT GTCTCTAAGA AAGGTTCCCG CAGACTTGAC CCCAGCCACA ACGACACTGG ATTTATCCTA TAACCTCCTT TTTCAACTCC  300

AGAGTTCAGA TTTTCATTCT GTCTCCAAAC TGAGAGTTTT GATTCTATGC CATAACAGAA TTCAACAGCT GGATCTCAAA ACCTTTGAAT TCAACAAGGA  400

GTTAAGATAT TTAGATTTGT CTAATAACAG ACTGAAGAGT GTAACTTGGT ATTTACTGGC AGGTCTCAGG TATTTAGATC TTTCTTTTAA TGACTTTGAC  500

ACCATGCCTA TCTGTGAGGA AGCTGGCAAC ATGTCACACC TGGAAATCCT AGGTTTGAGT GGGGCAAAAA TACAAAAATC AGATTTCCAG AAAATTGCTC  600

ATCTGCATCT AAATACTGTC TTCTTAGGAT TCAGAACTCT TCCTCATTAT GAAGAAGGTA GCCTGCCCAT CTTAAACACA ACAAAACTGC ACATTGTTTT  700

ACCAATGGAC ACAAATTTCT GGGTTCTTTT GCGTGATGGA ATCAAGACTT CAAAAATATT AGAAATGACA AATATAGATG GCAAAAGCCA ATTTGTAAGT  800

TATGAAATGC AACGAAATCT TAGTTTAGAA AATGCTAAGA CATCGGTTCT ATTGCTTAAT AAAGTTGATT TACTCTGGGA CGACCTTTTC CTTATCTTAC  900

AATTTGTTTG GCATACATCA GTGGAACACT TTCAGATCCG AAATGTGACT TTTGGTGGTA AGGCTTATCT TGACCACAAT TCATTTGACT ACTCAAATAC 1000

TGTAATGAGA ACTATAAAAT TGGAGCATGT ACATTTCAGA GTGTTTTACA TTCAACAGGA TAAAATCTAT TTGCTTTTGA CCAAAATGGA CATAGAAAAC 1100

CTGACAATAT CAAATGCACA AATGCCACAC ATGCTTTTCC CGAATTATCC TACGAAATTC CAATATTTAA ATTTTGCCAA TAATATCTTA ACAGACGAGT 1200

TGTTTAAAAG AACTATCCAA CTGCCTCACT TGAAAACTCT CATTTTGAAT GGCAATAAAC TGGAGACACT TTCTTTAGTA AGTTGCTTTG CTAACAACAC 1300

ACCCTTGGAA CACTTGGATC TGAGTCAAAA TCTATTACAA CATAAAAATG ATGAAAATTG CTCATGGCCA GAAACTGTGG TCAATATGAA TCTGTCATAC 1400

AATAAATTGT CTGATTCTGT CTTCAGGTGC TTGCCCAAAA GTATTCAAAT ACTTGACCTA AATAATAACC AAATCCAAAC TGTACCTAAA GAGACTATTC 1500

ATCTGATGGC CTTACGAGAA CTAAATATTG CATTTAATTT TCTAACTGAT CTCCCTGGAT GCAGTCATTT CAGTAGACTT TCAGTTCTGA ACATTGAAAT 1600

GAACTTCATT CTCAGCCCAT CTCTGGATTT TGTTCAGAGC TGCCAGGAAG TTAAAACTCT AAATGCGGGA AGAAATCCAT TCCGGTGTAC CTGTGAATTA 1700

AAAAATTTCA TTCAGCTTGA AACATATTCA GAGGTCATGA TGGTTGGATG GTCAGATTCA TACACCTGTG AATACCCTTT AAACCTAAGG GGAACTAGGT 1800
```

FIG. 13A

TAAAAGACGT TCATCTCCAC GAATTATCTT GCAACACAGC TCTGTTGATT GTCACCATTG TGGTTATTAT GCTAGTTCTG GGGTTGGCTG TGGCCTTCTG 1900

CTGTCTCCAC TTTGATCTGC CCTGGTATCT CAGGATGCTA GGTCAATGCA CACAAACATG GCACAGGGTT AGGAAAACAA CCCAAGAACA ACTCAAGAGA 2000

AATGTCCGAT TCCACGCATT TATTTCATAC AGTGAACATG ATTCTCTGTG GGTGAAGAAT GAATTGATCC CCAATCTAGA GAAGGAAGAT GGTTCTATCT 2100

TGATTTGCCT TTATGAAAGC TACTTTGACC CTGGCAAAAG CATTAGTGAA AATATTGTAA GCTTCATTGA GAAAAGCTAT AAGTCCATCT TTGTTTTGTC 2200

TCCCAACTTT GTCCAGAATG AGTGGTGCCA TTATGAATTC TACTTTGCCC ACCACAATCT CTTCCATGAA AATTCTGATC ATATAATTCT TATCTTACTG 2300

GAACCCATTC CATTCTATTG CATTCCCACC AGGTATCATA AACTGAAAGC TCTCCTGGAA AAAAAAGCAT ACTTGGAATG GCCCAAGGAT AGGCGTAAAT 2400

GTGGGCTTTT CTGGGCAAAC CTTCGAGCTG CTATTAATGT TAATGTATTA GCCACCAGAG AAATGTATGA ACTGCAGACA TTCACAGAGT TAAATGAAGA 2500

GTCTCGAGGT TCTACAATCT CTCTGATGAG AACAGATTGT CTA TAA AATC CCACAGTCCT TGGGAAGTTG GGGACCACAT ACACTGTTGG GATGTACATT 2600

GATACAACCT TTATGATGGC AATTTGACAA TATTTATTAA AATAAAAAAT GGTTATTCCC TTCATATCAG TTTCTAGAAG GATTTCTAAG AATGTATCCT 2700

ATAGAAACAC CTTCACAAGT TTATAAGGGC TTATGGAAAA AGGTGTTCAT CCCAGGATTG TTTATAATCA TGAAAAATGT GGCCAGGTGC AGTGGCTCAC 2800

TCTTGTAATC CCAGCACTAT GGGAGGCCAA GGTGGGTGAC CCACGAGGTC AAGAGATGGA GACCATCCTG GCCAACATGG TGAAACCCTG TCTCTACTAA 2900

AAATACAAAA ATTAGCTGGG CGTGATGGTG CACGCCTGTA GTCCCAGCTA CTTGGGAGGC TGAGGCAGGA GAATCGCTTG AACCCGGGAG GTGGCAGTTG 3000

CAGTGAGCTG AGATCGAGCC ACTGCACTCC AGCCTGGTGA CAGAGCGAGA CTCCATCTCA AAAAAAAGAA AAAAAAAAAA GAAAAAAATG GAAAACATCC 3100

TCATGGCCAC AAAATAAGGT CTAATTCAAT AAATTATAGT ACATTAATGT AATATAATAT TACATGCCAC TAAAAAGAAT AAGGTAGCTG TATATTTCCT 3200

GGTATGGAAA AAACATATTA ATATGTTATA AACTATTAGG TTGGTGCAAA ACTAATTGTG GTTTTTGCCA TTGAAATGGC ATTGAAATAA AAGTGTAAAG 3300

AAATCTATAC CAGATGTAGT AACAGTGGTT TGGGTCTGGG AGGTTGGATT ACAGGGAGCA TTTGATTTCT ATGTTGTGTA TTTCTATAAT GTTTGAATTG 3400

TTTAGAATGA ATCTGTATTT CTTTTATAAG TAGAAAAAAA ATAAAGATAG TTTTTACAGC CT 3462

FIG. 13B